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Message-Id: <199606201354.IAA12773@uro.theporch.com>
Errors-To: ws4s@midtenn.net
Reply-To: glowbugs@theporch.com
Originator: glowbugs@theporch.com
Sender: glowbugs@theporch.com
Precedence: bulk
From: glowbugs@theporch.com
To: Multiple recipients of list <glowbugs@theporch.com>
Subject: GLOWBUGS digest 218
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@theporch.com
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GLOWBUGS Digest 218

Topics covered in this issue include:

- 1) linear amp question
by Bob Roehrig <broehrig@admin.aurora.edu>

Date: Thu, 20 Jun 1996 08:53:30 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: glowbugs <glowbugs@theporch.com>
Subject: linear amp question
Message-ID: <Pine.ULT.3.91.960620084106.25990A-1000000@admin.aurora.edu>

I have completed building a small linear amp to go wiith my 20-A exciter.
All seems fine except it only puts out about half the power I would expect.

The amp consists of four 807's in parallel, grid driven - using a tapped
toroidal autotransformer with a terminating resistor on the input (resistor
is a 200 ohm Glowbar).

Parameters are: Plate voltage: 725V, Screen voltage: 280V, bias: -32V.
I increase the drive until grid current just barely shows. AT that point
the plate current is 240ma so input power is 184 watts, power out
measured on a Bird is 100 watts.

According to my ARRL SSB manual, that is about half of what I would expect
4 of these tubes to do. I even tried increasing the screen voltage, since

280 is a bit lower than the recommended 300. At 350V, the power out only went up to 130 watts.

Any ideas why the output is so low?

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End of GLOWBUGS Digest 218
